

# MARINE CORPS WARFIGHTING LABORATORY

The purpose of the **Mobile Counter Fire System (MCFS)** initiative is to develop a counter sniper capability that can improve force protection in a variety of tactical settings. MCFS will augment force protection by providing a capability to immediately detect sniper fire, identify and report the sniper's location and return accurate fire.

**Background:** The Marine Corps has a need to provide the war fighter a means of detecting the location of incoming sniper fire. Technological advances in sensors, computer analysis of weapon signatures, and integration of robotics are available to produce sniper detection, location and shoot back prototypes for experimentation. The long-term goal is to migrate the technology (especially the sensor package) to a Program of Record.

**Description:** The current MCFS prototype consists of a High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) mounted with an acoustic sniper gunfire detection system capable of operating in a static position. The system has the capability to slew a ring mounted heavy machine gun to the sniper's position and automatically track the sniper's position. Final aiming and firing is controlled from inside the armored HMMWV by the operator. Experimentation will consist of limited technical assessments of an advanced prototype in live fire scenarios. The intent is to develop a technologically mature capability set (system prototype) that can be used in extensive operational assessments in order to refine Mission Needs for insertion into the Expeditionary Force Development Process.

## MOBILE COUNTER FIRE SYSTEM

*fact sheet*



**Deliverable Product(s):** Prototype for operational assessment and requirements documentation.

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